AMPEREX TRANSMITTING TUBE 276-A

R.F. Power Amplifier, Oscillator, A.F. Power Amplifier, Modulator

MAXIMUM RATINGS AND TYPICAL OPERATING CONDITIONS

A.F. Power Amplifier and Modulator—Class A

	Rating per Tube	Typical Operation One Tube	
A.C. Filament Voltage		10	10
D.C. Plate Voltage	1250	1000	1200
D.C. Grid Voltage		55	—70
Peak A.F. Grid Voltage		50	65
D.C. Plate Current (ma.)	_	75	80
Plate Dissipation (watts)	100	75	96
Load Resistance (ohms)	_	4800	7600
Power Output (watts)		14	21
Distortion (% Second			
Harmonic)	_	5	3

A.F. Power Amplifier and Modulator—Class B

GENERAL CHARACTERISTICS Filament Voltage 10-10.5 Filament Current (amps) 3.25 Amplification Factor 12.5 Grid to Plate Transconductance @ 100 ma. 4300 micromhos Direct Interelectrode Capacitances: Grid to Plate 9.0 μμί Grid to Filament 5.5 μμί Plate to Filament 3.5 μμί

Plate Modulated R.F. Power Amplifier Class C—Telephony

(Carrier conditions for use with modulation factor of 1.0)

	Maximum Rating per Tube	Typical Operation Two Tubes	
A.C. Filament Voltage	_	10	10
D.C. Plate Voltage	1250	1000	1250
D.C. Grid Voltage	_	-72	—90
Load Resistance (ohms			
per tube)	_	1250	1675
Effective Load Resistance			
(Plate to Plate) (ohms)		5000	6700
Zero Signal Plate Current (m	ια.) —	60	50
Peak A.F. Grid to Grid Volta	rge —	344	380
Max. Signal D.C. Plate			
Current (ma.)	210	400	400
Max. Signal Plate Input			
(watts)	260	400	500
Plate Dissipation (watts)	125	-	-
Max. Signal Driving Power			
(Approx.) (watts)	_	4	4.5
Max. Signal Plate Power			
Output (watts)	_	240	320

R.F.	Power	Amplifier—Class	B—Telephony	
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(Carrier conditions for use with modulation factor of 1.0)

	Maximum Rating per Tube	Typical Operation One Tube	
A.C. Filament Voltage	_	10	10
D.C. Plate Voltage	1250	1000	1250
D.C. Grid Voltage	_	60	85
Peak R.F. Grid Voltage	_	100	110
D.C. Plate Current (ma.)	150	140	130
Plate Input (watts)	175	140	162
Plate Dissipation (watts)	125	95	107
D.C. Grid Current (Approx.) (ma.) Driving Power at Peak	_	2.5	1.0
Modulation (Approx.) (wa	tte) —	3.5	3.6
Plate Power Output (watts) Frequency Limit for Above		45	55
Operation (mc.)	20	30	20

Maximum Rating per Tube		Typical Operation One Tube	
A.C. Filament Voltage		10.5	10.5
D.C. Plate Voltage	1250	1000	1250
D.C. Grid Voltage	-400	250	-300
Peak R.F. Grid Voltage	_	380	430
D.C. Plate Current (ma.)	175	170	166
Plate Input (watts)	220	170	208
Plate Dissipation (watts)	85	55	60
D.C. Grid Current			
(Approx.) (ma.)	50	10	8
Driving Power (Approx.) (wo	ıtts) —	3.5	3.5
Plate Power Output (watts)	_	115	148
Frequency Limit for Above			
Operation (mc.)	10	20	10
F.C.C. Broadcast Rating			
(watts)	125		125

R.F. Power Amplifier or Oscillator—Class C Telegraphy

	Maximum Rating per Tube	Typical Operation One Tube	
AC. Filament Voltage	_	10	10
D.C. Plate Voltage	1250	1000	1250
D.C. Grid Voltage	-400	-200	250
Peak R.F. Grid Voltage		340	385
D.C. Plate Current (ma.)	210	200	200
Plate Input (watts)	260	200	250
Plate Dissipation (watts)	125	55	80
D.C. Grid Current (Approx.) (ma.) Driving Power (Approx.)	50	15	10
(watts)	_	5	3.5
Plate Power Output (watts) Frequency Limit for Above	-	145	170
Operation (mc.)	20	30	20

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